

# IP-CAM

**Wireless/Wired Network IP Camera**  
*(For PC View)*

**Night Vision & Remote Operation**

*User Manual*

# **Thank you for buying our IP camera**

**IPCAM AJ Series IP Camera products are designed and equipped for local and remote network video surveillance system, including wired IP bullet camera, wireless IP bullet camera, IP IR dome camera, IP IR waterproof camera, IP Pan/Tilt/Zoom Camera etc. We adopt high performance chip to ensure high quality media processor which processes audio and video collection, compression and transmission. Standard M-JPEG compression format ensures clear and streaming video performance. It enables users to view live video via IE6.0, IE7.0, IE8.0, Firefox, Google browser or other standard browser.**

**IPCAM AJ series IP Camera products are applicable for big, medium-sized and small enterprises, chain store, factory, home and all kinds of spots where remote network video transmission and control supposed to be installed, they are easy to be installed and operated. Before the installation of the IP camera, please check if your product accessories in the package are complete**

## **Packing List**

**Untie the pack and check the items contained against the following list:**

- IP Camera X1
- Warranty Card X1
- DC Power Supply X1
- CD X1
- Certificate of Quality X1
- Mounting bracket X1

**NOTE: Please contact us immediately if anything damaged or short of contents.**

# Table of CONTENTS

|   |    |
|---|----|
| 1. Product Introduction .....                       | 3  |
| 1.1. Safety Introduction .....                      | 3  |
| 1.2. Product Specifications.....                    | 3  |
| 1.3. System Requirements.....                       | 3  |
| 1.4. Product Views.....                             | 4  |
| 1.4.1 Front View.....                               | 4  |
| 1.4.2 Interface View.....                           | 5  |
| 1.5. Hardware Installation.....                     | 5  |
| 1.6. Software Installation.....                     | 6  |
| 2. Software Operation.....                          | 6  |
| 2.1. Search Tool Software.....                      | 6  |
| 2.1.1. Search The IP address of the Camera.....     | 6  |
| 2.1.2. Configuration of the Network.....            | 7  |
| 3. Real-Time Video Demonstration.....               | 9  |
| 3.1. Camera Login.....                              | 9  |
| 3.2. View via IE Browser.....                       | 10 |
| 3.3. View via Safari, Firefox, Google Browser ..... | 13 |
| 3.4. Main Menu interface Introduction.....          | 14 |
| 3.5. Administer Setting Instruction.....            | 15 |
| 3.5.1. Multi-Device Settings.....                   | 16 |
| 3.5.2. Basic Network Settings.....                  | 17 |
| 3.5.3. Wireless Settings.....                       | 17 |
| 3.5.4. Dynamic DNS Settings.....                    | 18 |
| 3.5.4.1. DDNS Setting .....                         | 18 |
| 3.5.4.2. Port Forwarding Settings.....              | 20 |
| 3.5.4.3. DDNS Register.....                         | 23 |
| 3.5.5. Email and FTP Service Settings.....          | 28 |
| 3.5.6. Alarm Service Settings.....                  | 29 |
| 3.5.7. Reset/Firmware Upgrade Settings.....         | 29 |
| 3.5.8. Record&Capture Path.....                     | 30 |
| 3.5.9. Reset/Firm Ware Upgrade.....                 | 30 |
| 3.5.9.1.Restore Factory Settings.....               | 31 |
| 3.5.9.2. Reboot Equipment.....                      | 31 |
| 4. Warranty.....                                    | 31 |

# 1. Product Introduction

## 1.1 Safety Instructions

### (1). Use the proper power source.

Do not use this product with a power source that supplies more than the specified Voltage (100-240V AC).

### (2). Never insert anything metallic into the camera.

Inserting metal object into the camera can be a source of dangerous electric shock.

### (3). Do not operate in wet or dusty environment.

Avoid places like a damp basement or dusty hallway.

### (4). Do not attempt to disassemble the camera.

You may be subjected to severe electrical shock if you attempt to take apart the camera while the camera is connected to its power source. If there are any unusual sounds or smells coming from the camera, unplug it immediately and contact Customer Service.

### (5). Handle the camera carefully

Dropping the camera on any hard surface may cause a malfunction. If the camera does not work properly due to physical damage, please contact Customer Service for repair or exchange.

### (6). Apply to FCC and CE Rule

This device complies with part 15 of the FCC and CE Rules. Operation is subject to the following two conditions:

1: This device may not cause harmful interference.

2: This device must accept any interference received, including interference that may cause undesired operation.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. This equipment complies with FCC and CE radiation exposure limits set forth for uncontrolled environment. This equipment should be installed and operated with minimum distance 20 cm between the radiator & your body.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

## 1.2. Product Specifications

\*- Adopt high Performance, strong function media processor 32Bit RSIC

\*- High sensor CMOS

\*-Adopt optimized MJPEG video compression algorithm, realize high-definition images transmission in narrow bandwidth;

- \*-Maximum support 15 users viewing at the same time, no limit for users if using forwarder Server function;
- \*- Built in Web Server, convenient for users to use standard browser to realize the real time monitoring and setting administration;
- \*-Support WIFI:802.11 b/g/n wireless networking;
- \*-Support remote system update;
- \*-Support DDNS analysis, support LAN & Internet (ADSL,Cable Modem)
- \*-Support variety of network protocol: TCP/IP, UDP, SMTP, PPPoE, Dynamic DNS, DNS Client, SNTP, BOOTP, DHCP, FTP, SNMP, WIFI/802. 11b/g
- \*-Parts of modes products support one/ two way audio, talkback;
- \*-Support motion detection alarm function (area & sensitivity Configurable);
- \*-Support image snapshot
- \*-Abnormal automatic recovery function, auto reconnection available when network Interruption occurred.
- \*-Dynamic alarm function, alarm time-schedule configurable.

### 1.3. System Requirements

|                    |  |
|--------------------|--|
| CPU:               | 2.06GHZ or above   |
| Memory:            | 256M or above  |
| Network Card:      | 10M or above   |
| Display Card:      | 64M or above   |
| Operating System:  | Windows XP/Vista/Windows 7 (32 bit)  |
| Hard Disk Drive:   | No Maximum Storage Requirement   |
| Internet Explorer: | Version 5.0 or above   |
| DirectX:           | Version 8.0 or above   |
| Audio Card:        | PC must have microphone and speaker connected and configured for 2-Way audio play.           |
| Network Protocol:  | TCP/IP, UDP, SMTP, PPPoE, Dynamic DNS, DNS Client, SNTP, BOOTP, FTP, SNMP, Wifi (802.11 b/g) |

### 1.4. Product Views

#### 1.4.1 Front View



#### 1.4.2 Interface View



Figure 1.1

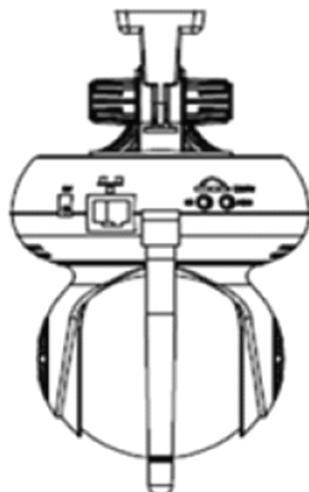
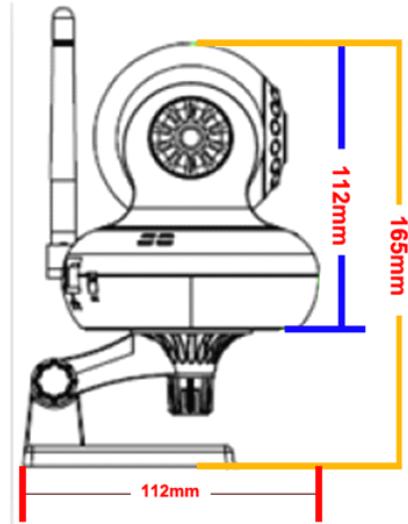


Figure 1.2



1: Audio Out , 2: Audio In

3: Ethernet interface: RJ-45 interface. Power Supply Light: constant on after power up

Network light: constant sparkle after power up data transmission.

4: Antenna:

5: Power input interface: connect direct current 5V Power

## 1.5 Hardware Installation

Follow the steps below to set up your camera hardware. Make sure to follow each step carefully to ensure that the camera operates properly

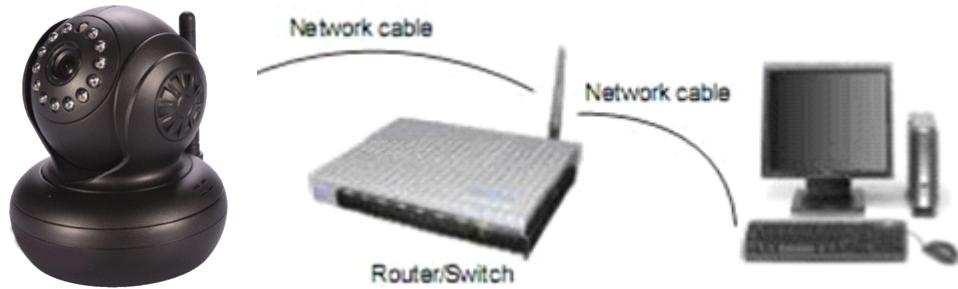
1. Install the Wi-Fi antenna (For wireless model) .

2. Plug the power adaptor into camera

3. Plug the network cable into camera, the other side to the router/switch

4. It takes approx 30 seconds to boot up the camera, then you will find the IP address from "Search Tool" (Figure: 1.8)

5. When the power on and network cable connected, the green led of the real panel will keep on, The yellow led will keep flash.



**Figure 1.3**

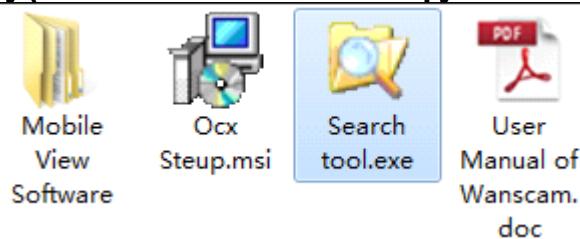
## 1.6 Software Installation



**Figure 1.4**

**Open the CD Install the follow software:**

1. **ActiveX:** Click "OCX setup"—"Next"—"Install"—"Finish".
2. **Search Tool:** Open the CD, click  **Search Tool**, **The Search Tool will run automatically.(No need to install. You can copy this software to your desktop.)**



**Figure 1.5**

## 2. Software operation

### 2.1 Search Tool Software

#### 2.1.1 Search the IP address of the camera.

When the device has been mounted properly, you can double click the Icon

" Search Tool" run this IP address search tool.

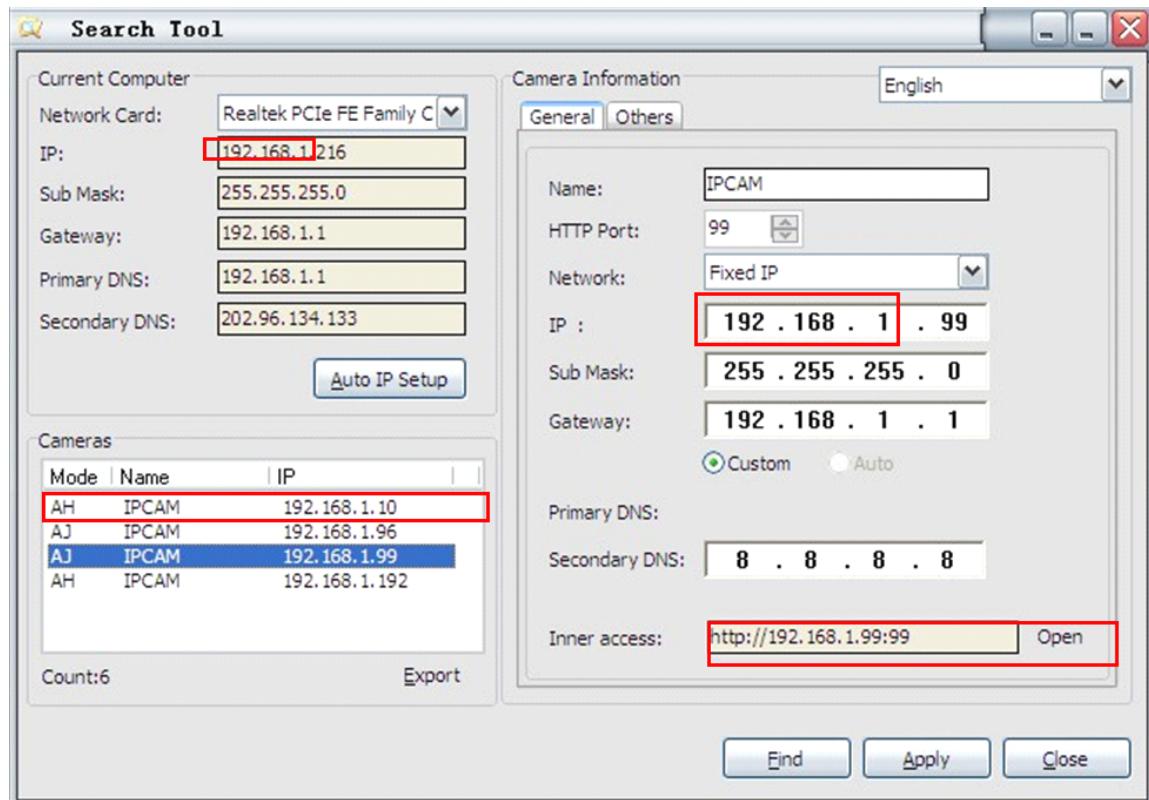


Figure 2.1

**Note:** The software searches IP Servers automatically over LAN.

There are 2 cases:

1. No IP Cameras found within LAN. After about 1 minute search, the Equipments List Field not show the IP address.

2. IP Cameras have been installed within LAN. All the IP Cameras will be listed and the total number is displayed in the Equipments list field as shown in Figure 2.1

**Note:**

1. **Current Computer** indicates the Computer's IP Address information.
2. **Equipment information** indicates the IP camera's IP Address information.
3. **If you find that the camera's "Subnet Mask", "Gateway", "DNS Server" is not as same as your current computer's. You need try to change the camra's IP address.**  
**Make sure the "Subnet Mask", "Gateway", "DNS Server" is the same as your router's or your current computer's.**

**4. If you don't know how to configure your camera's IP address. You can click "Update" button. The Search Tool software can help you configure a usable IP camera automatically.**

### **2.1.2 Configuration of the Network**

**Once your camera's IP address' Subnet Mask, Gateway, DNS Server is the same as your PC or router, you need configure the camera's Network parameter manually.**

**IP address:** Fill in the IP address assigned and make sure it is in the same subnet as the **Gateway**, and the subnet should be the same as your computer or router. (i.e. the first three sections are the same)

**Subnet Mask:** The default subnet mask of the equipment is: 255.255.255.0. You can find the subnet mask from your PC or router.

**Gateway:** Make sure it is in the same subnet with PC's IP address .Here gateway is the LAN IP of your router.

**Primary DNS:** IP address of IPS network provider. You can also set it as the same as the Gateway.

**NOTE:** You can find out the **Subnet Mask, Gateway, Primary DNS** of your PC from the "Search Tool" software.

**Http Port:** LAN port assigned for the equipment, default is 99. You can change the port number to any one you want such as : 98,211,9999 etc.

## **3: Real-time Video Demonstration.**

### **3.1. Camera Login:**

You can access the camera through **IP Camera Tool** or **IE, Firefox, Safari, Google Chrome or other standard browser** directly.

1. Double click the IP address of the IP Camera listed (Figure 2.1). The default browser you use will run automatically and come to the camera login interface. (Figure 3.1)
2. To access the camera by IE Browser directly, just type the camera's IP address, for example, if the camera's IP address is 192.168.1.99:99:



**Figure 3.1**

**Default username: admin  
Password: no password.**

Input the correct user name and password, the Sign In interface will pop-up. There are three models to login (figure 3.2).



**Figure 3.2**

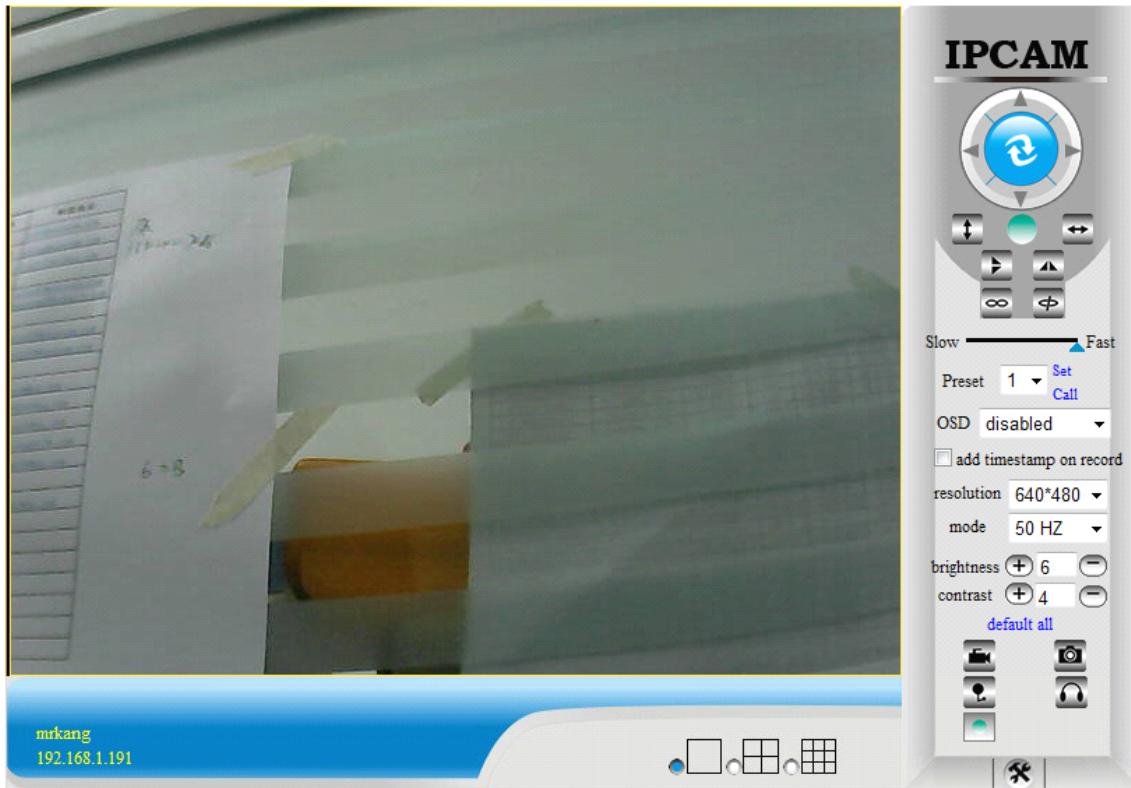
- (1) ActiveX Mode (For IE Browser): available in IE6.0 or above explorer
- (2) "RTSP Stream Mode": available in Firefox, Safari, and Google browser.
- (3) "No Plug-In Mode": available in smart phone browser.
- (4) SD card video playback online

## **3.2. View via IE Browser.**

**Choose Active Mode (For IE Browser), and sign in.**

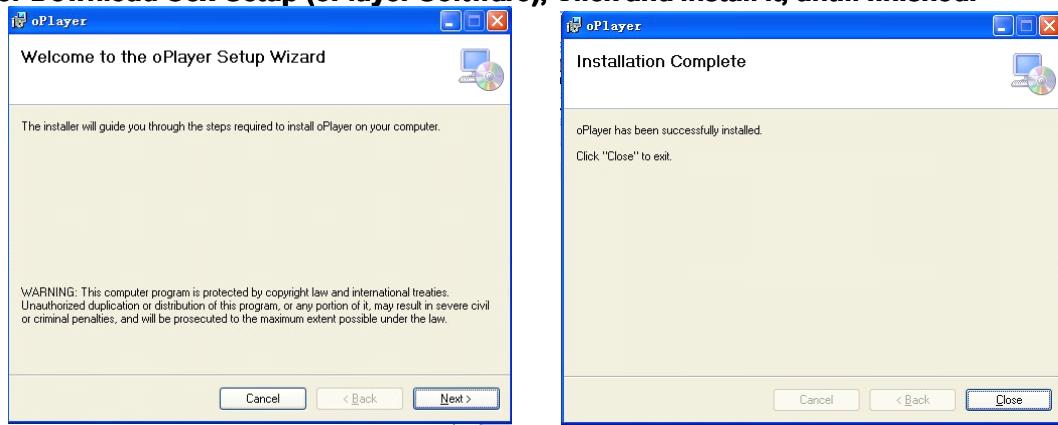
**The first time login the camera, maybe get ActiveX prompt as the picture below, please**

**download the Ocx(or run  in CD) and install first then choose Run Add-on, refresh and login the camera again, then will see live video, details as below:**



**Figure 3.3**

**After Download Ocx-Setup (oPlayer Software), Click and install it, until finished.**



**Figure 3.4**

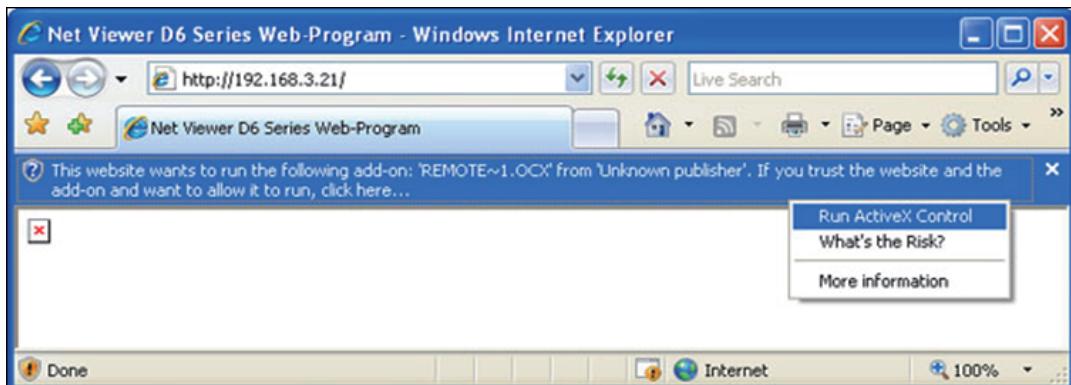


Figure 3.3 Windows XP system

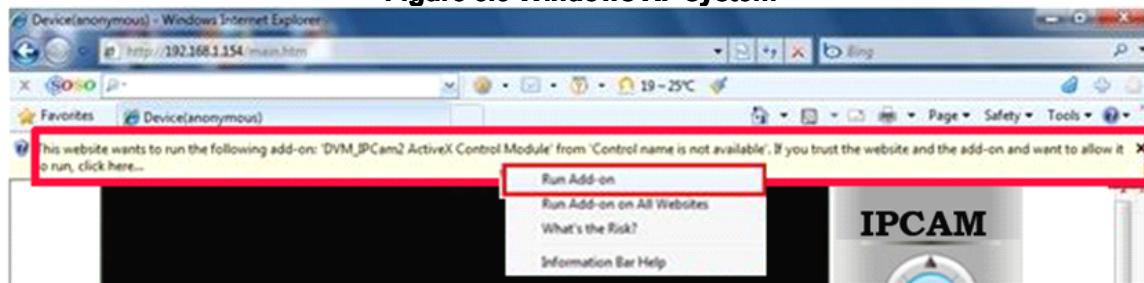


Figure 3.4 Win7 System

**Note:** If there is still no live video after run ActiveX, please try to enable the ActiveX options of IE security settings, please do the follow steps:

1. Close the firewall of your computer.
2. Change the ActiveX settings, "IE" browser > "Tool" > "Internet Options" > "Security" > "Custom Level" > "ActiveX control and Plug-ins", all the ActiveX options set to be "Enable": Especially:
  - Enable: Download unsigned ActiveX controls
  - Enable: Initialize and script ActiveX controls not marked as safe
  - Enable: Run ActiveX controls and plu-ins

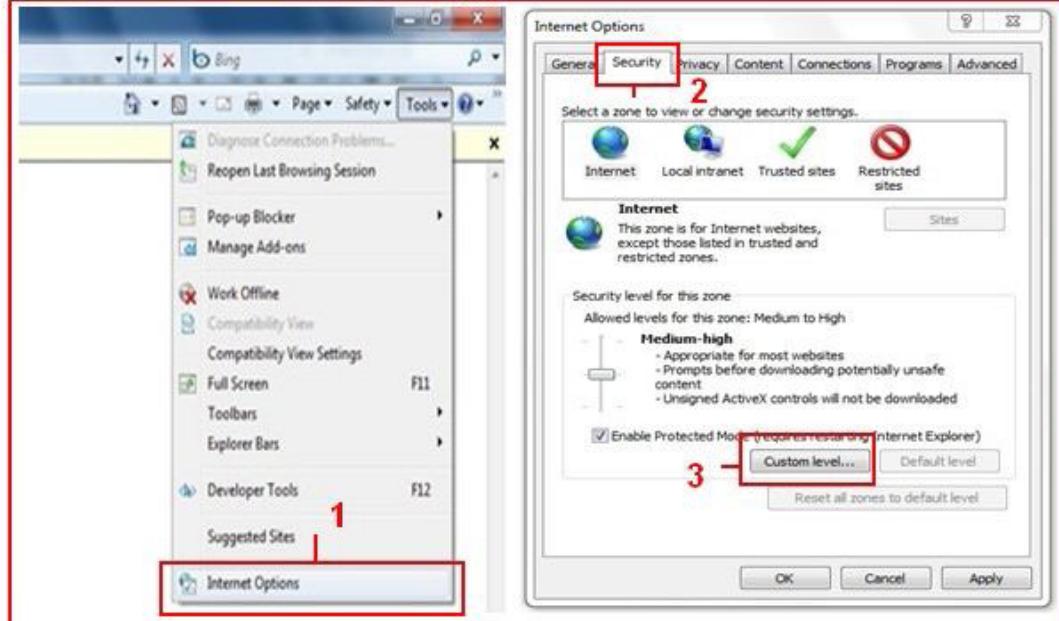


Figure 3.5

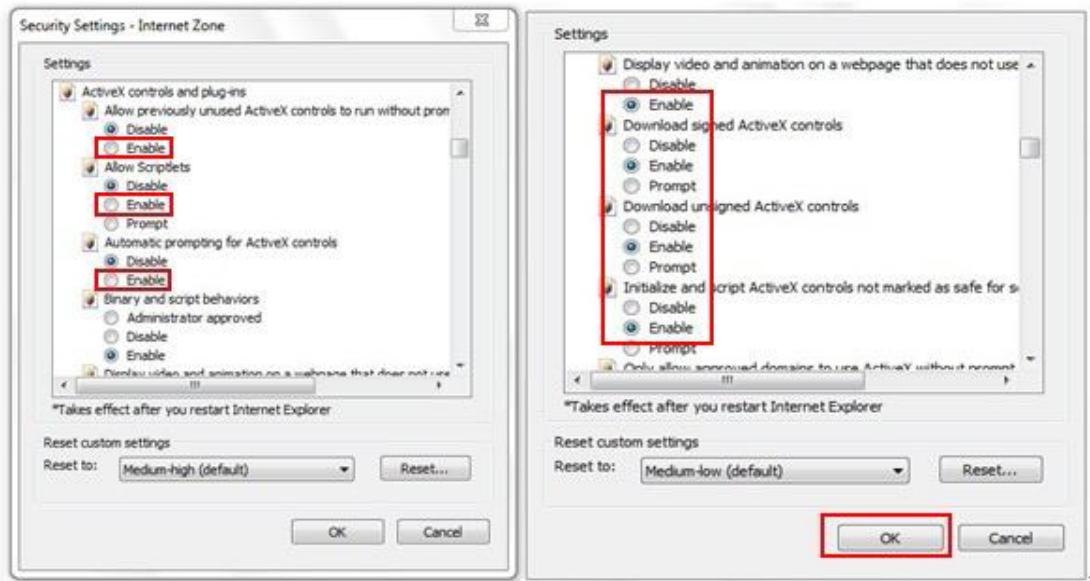


Figure 3.6

In Addition: you can also click "start" menu->"Internet Explorer", choose "Internet attributes " to enter, or via "Control Panel" ->"Internet Explorer", enter to Security setting. 3. If there is still no image, please close your anti-virus software, and then try step 1 & 2 again.

4. If you allowed the Active X running, But still could not see live video, Only a Red

 Cross in the center of the video, And the device status light change to yellow color  , not green please change another port number to try, Don't use port 80, usd other port such as99, 199 etc.

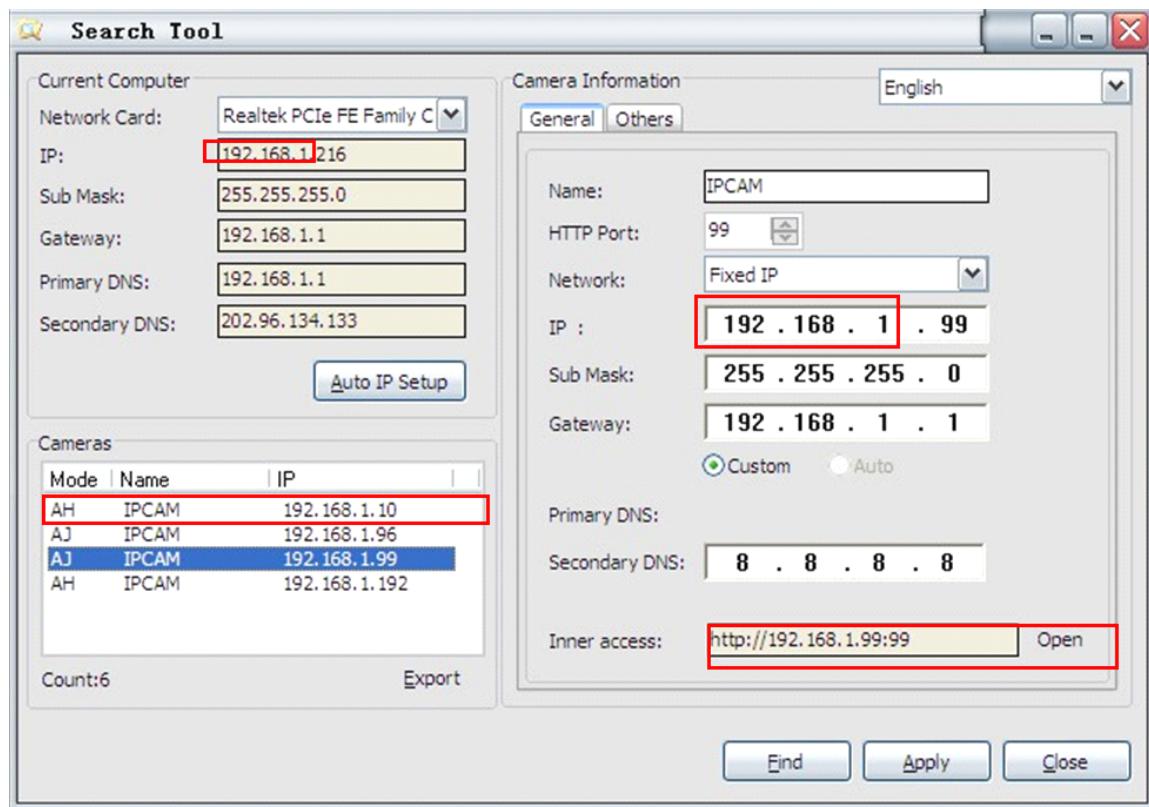


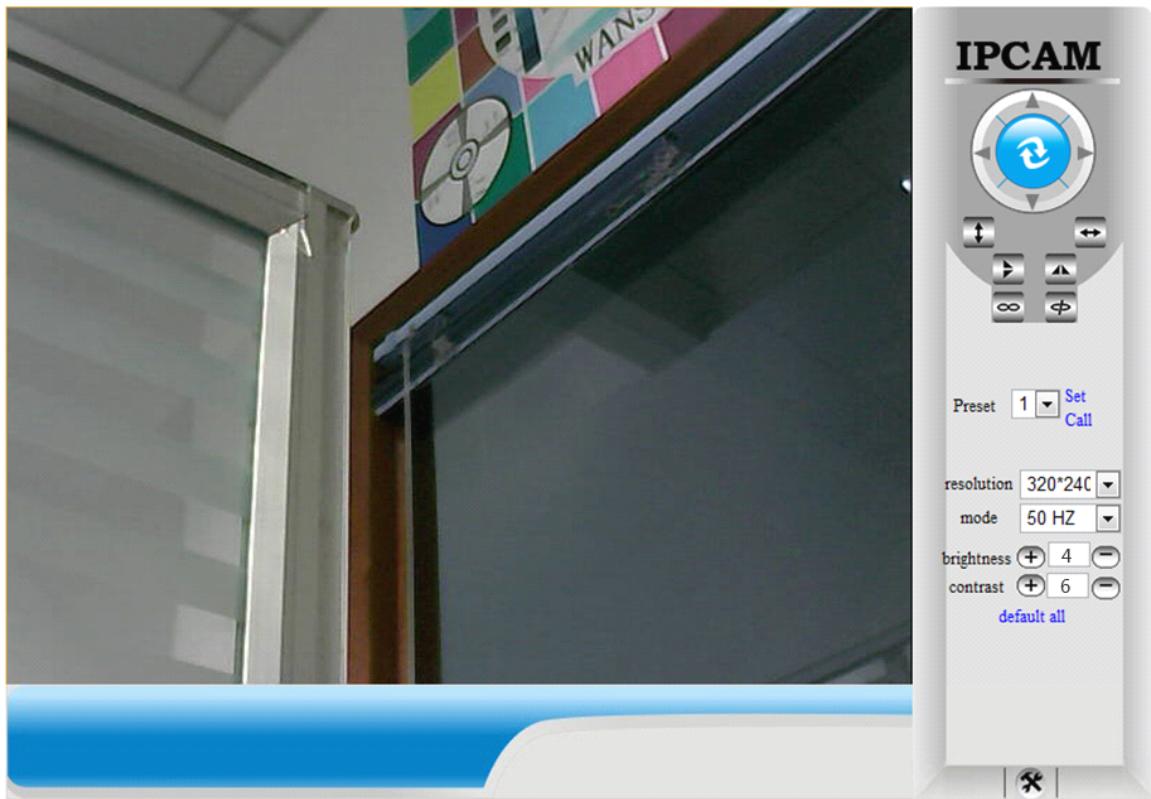
Figure 3.7

**NOTE:** Make sure that the firewall or anti-virus software doesn't block the software or ActiveX. If you couldn't see live video, please close your firewall or anti-virus software, and try again.

### 3.3. View via Safari, Firefox, Google Browser

Choose Server Push Mode (For Safari, Firefox, Google Browser), and sign in. Server Push Mode doesn't support ActiveX, so some functions are not available, such As Record, Audio, Talk, Speaker, The speed control bar, Zoom etc.), if you want to use these functions, please use IE Browser.

The Control Interface in this mode is as bellow:



### 3.4. Main Menu interface introduction

Take the “Active Mode(For IE Browser)” For example:

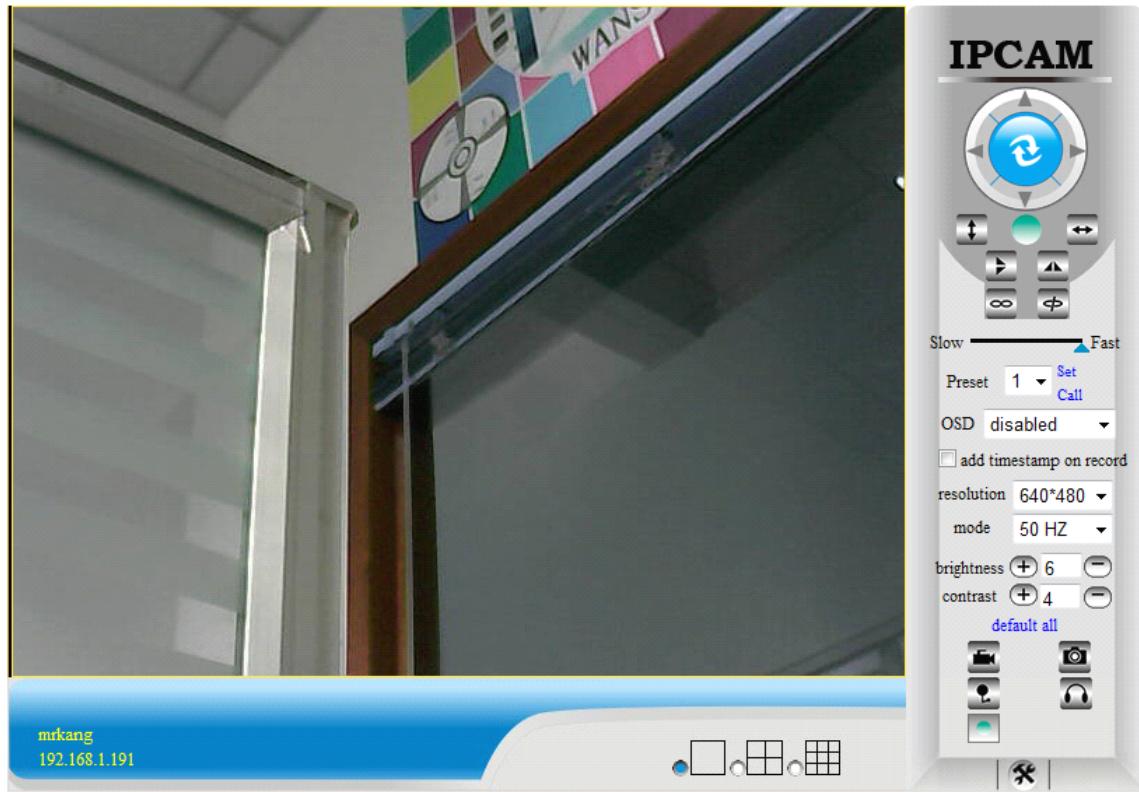
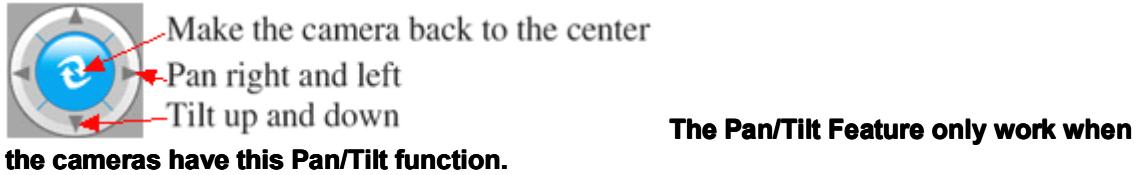


Figure 3.8



 This option enables log detection. After the online user clicks this button, a log is entered into the camera's Log Data documenting the IP address of users who have accessed the IP camera. This Option enables alarm detections too.

 This button make the camera Vertical cruise (for the Pan/Tilt Cams).

 This button make the camera Level cruise (for the Pan/Tilt Cams).

 This button flips the image vertically.

 This button flips the image horizontally.

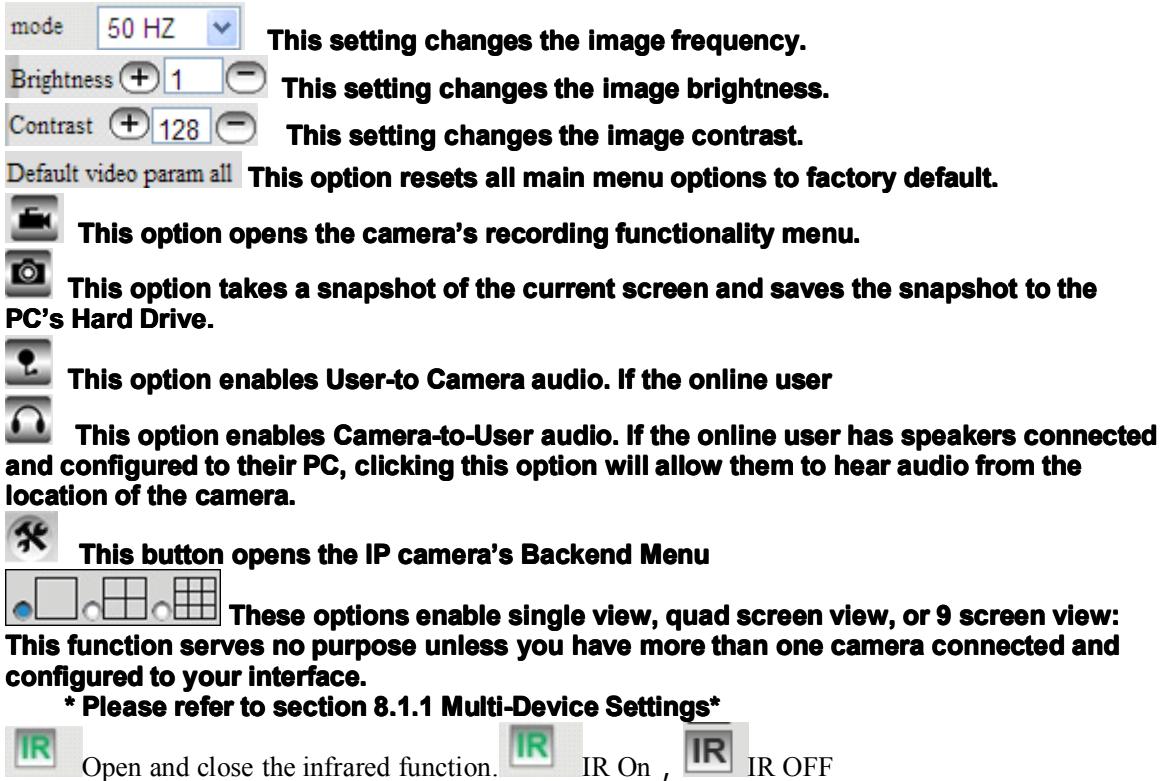
 This button for turn on and turn off the IR LED Light.

 S ————— F Control the speed of the Pan/tilt. Only work for the Pan/tilt Cams.

 Preset 1   This button for setting the Preset of the camera. Only work for Pan/tilt Cams

 OSD disabled  This setting changes the color of the OSD lettering.

 resolution 640\*480  This setting changes the image resolution.



## 3.5. Administer Setting Instruction

**When login as Administrator, you can enter the IP Camera for Administrator.**  
**Administrator supports all the settings and operations of the camera; you can set and control it freely There are some special functions only for administrator as below:**

**Alias setting :** You can set your favorite device aliases.

**Date&Time set :** setting the date and time.

**User settings :** Can be set up to 8 users. On this page you can set up accounts of the user name, password, as well as in their packet (administrator, operator, visitor).

- **Visitor :** In this mode, you can only visit.
- **Operator :** You can set the direction of the lens device, set the video screen's brightness, contrast and other parameter.
- **Administrator :** You can set the device advanced configuration.

**UPnP set :** If you want internet access IPCAM, to ensure that the state is successful UPnP.

**Device Firmware Upgrade:** The system firmware update the device firmware and application of

**Restore factory settings :** When there is not a response when the error occurred, you can restore the factory settings to resolve the device.

**I rebooted the device :** rebooted the device.

**Back:** Return to monitor mode

### 3.5.1 Multi-Device Settings

- **Add a local area network equipment**

**In the multi-device configuration page, you can see all the equipment inside the LAN.**  
**The first device is the default device. You can add more devices listed in the list of**

**equipment. Embedded applications, up to 4 devices at the same time-line. Click the “second road equipment” and double-click “Current list of devices in the LAN” in the device entry name, host address, Http port will automatically be filled, require the user to fill in the correct account name and password, click “Add.” Repeat this process you can continue to add devices. Finally do not forget to click on the “Settings” button.**

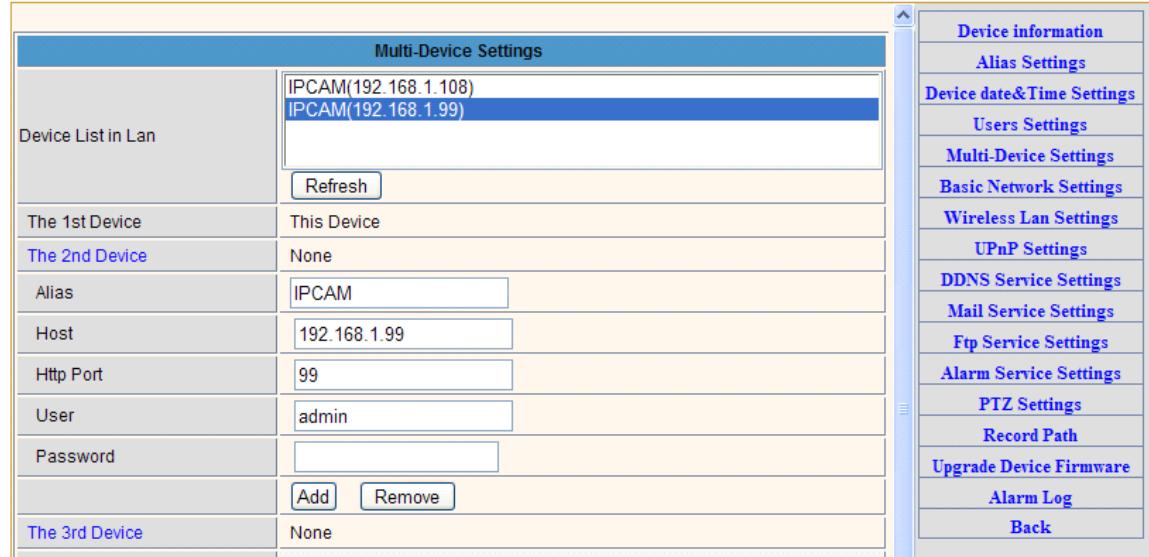


Figure 3.9



Figure 3.10

### 3.5.2 Network Settings

| Basic Network Settings     |                          |
|----------------------------|--------------------------|
| Obtain IP from DHCP Server | <input type="checkbox"/> |
| IP Addr                    | 192.168.1.99             |
| Subnet Mask                | 255.255.255.0            |
| Gateway                    | 192.168.1.1              |
| DNS Server                 | 8.8.8.8                  |
| Http Port                  | 99                       |

Device information

[Alias Settings](#)

[Device date&Time Settings](#)

[Users Settings](#)

[Multi-Device Settings](#)

[Basic Network Settings](#)

[Wireless Lan Settings](#)

[UPnP Settings](#)

[DDNS Service Settings](#)

[Mail Service Settings](#)

[Ftp Service Settings](#)

[Alarm Service Settings](#)

[PTZ Settings](#)

[Record & Capture Path](#)

[Upgrade Device Firmware](#)

[Alarm Log](#)

[Back](#)

**Figure 3.11**

**This sector is for DHCP and IP configuration, port forwarding is needed, If you choose to set IP address,please fill in the relative IP address, subnet mask, gateway, DNS server, Http port;**

### 3.5.3 Wireless Settings

1. Make sure the router is a wireless router.
2. Make sure the Wi-Fi antenna installed.
3. Make sure whether there is encryption of the WLAN of the router, if there is encryption, keep the key.
4. Login the camera, click  >“Wireless Lan Settings”>“Scan”, please scan 2times, then you will find the WLAN from the list, choose the one you use.
5. If there is no encryption, just click “Submit”, if there is encryption, please input the key, then click “Submit”.
6. Wait about 30 seconds, the camera will reboot, then unplug the network cable.

| Wireless Lan Settings                          |                                     |                   |
|--|-------------------------------------|-------------------|
| Wireless Network List                          | SSID                                | MAC               |
|  | TP-LINK_C A3FBE                     | C8:3A:35:3A:3E:00 |
|  | xha4                                | 94:0C:6D:42:87:74 |
|  | BUL                                 | 14:E6:E4:78:F4:B0 |
|  | TP-LINK_C A3FBE                     | 90:94:E4:CD:03:DC |
|  | TP-LINK_C A3FBE                     | E0:05:C5:AC:83:D6 |
|  | ChinaNet-6QJx                       | 38:46:08:D5:12:3E |
|  | TP-LINK_C A3FBE                     | EC:17:2F:CA:3F:BE |
|  | express                             | E0:05:C5:29:E6:4C |
|  | ChinaNet-quZd                       | 38:46:08:D5:81:12 |
| <a href="#">Scan</a>                           |                                     |                   |
| Using Wireless Lan                             | <input checked="" type="checkbox"/> |                   |
| SSID   | ipcam                               |                   |
| Network Type                                   | Infra                               |                   |
| Authentication                                 | WPA2-PSK Personal (TKIP)            |                   |
| Share Key                                      | ipcam                               |                   |
| <a href="#">Submit</a> <a href="#">Refresh</a> |                                     |                   |

Figure 3.12

### 3.5.4 Dynamic DNS Setting (DDNS)

#### 3.5.4.1 DDNS Setting:

(1): Click  > “DDNS Service Settings”.

| DDNS Service Settings                          |   |
|--|---|
| DDNS Service                                   | vipcam.org  |
| DDNS User                                      | <input type="text" value="no"/><br><input type="text" value="DynDns.org(dyndns)"/> <b>DynDns.org(dyndns)</b><br><input type="text" value="3322.org(dyndns)"/><br><input type="text" value="9299.org"/><br><input type="text" value="88safe.com"/> |
| DDNS Password                                  | <input type="text" value=""/>   |
| DDNS Status                                    | <input type="text" value="188safe.com"/>  |
| proxy config is                                | <input type="text" value="vipcam.org"/> <small>the device is in China Mainland or HongKong</small>  |
| <a href="#">Submit</a> <a href="#">Refresh</a> |   |

Figure 3.13

(2): Choose the DDNS, there are 4 kinds of options:

(1): Manufacturer' DDNS: We provide a free DDNS: **vipcam.org**. This domain is provided by manufacturer.

Note: 88safe.com is old DDNS provided by manufacturer also. If you want use the manufacturer's free DDNS, Please Choose to use **vipcam.org**.

| DDNS Service Settings  |              |
|--|--------------|
| DDNS Service   | vipcam.org   |
| DDNS User  | D5236        |
| DDNS Password  | *****        |
| DDNS Status  | DDNS Succeed |
| proxy config is needed if the device is in China Mainland or HongKong        |              |
| <input type="button" value="Submit"/> <input type="button" value="Refresh"/> |              |

[Device information](#)  
[Alias Settings](#)  
[Device date&Time Settings](#)  
[Users Settings](#)  
[Multi-Device Settings](#)  
[Basic Network Settings](#)  
[Wireless Lan Settings](#)  
[UPnP Settings](#)  
[DDNS Service Settings](#)  
[Mail Service Settings](#)  
[Ftp Service Settings](#)  
[Alarm Service Settings](#)  
[PTZ Settings](#)  
[Record & Capture Path](#)  
[Upgrade Device Firmware](#)  
[Alarm Log](#)  
[Back](#)

**Figure 3.14**

**(2): The Third Party DDNS: This domain is provided by the 3<sup>rd</sup> party, such as DynDns, Oray, 3322**

**If you use the third party DDNS, please choose the server you need, such as “3322.org” or “dyndns.org” as below:**

| DDNS Service Settings  |                    |
|--|--------------------|
| DDNS Service   | DynDns.org(dyndns) |
| DDNS User  | ipcam              |
| DDNS Password  | *****              |
| DDNS Host  | ipcam              |
| DDNS Status  | DDNS Succeed       |
| proxy config is needed if the device is in China Mainland or HongKong        |                    |
| <input type="button" value="Submit"/> <input type="button" value="Refresh"/> |                    |

**Figure 3.15**

| DDNS Service Settings  |                  |
|--|------------------|
| DDNS Service   | 3322.org(dyndns) |
| DDNS User  | ipcam            |
| DDNS Password  | *****            |
| DDNS Host  | ipcam            |
| DDNS Status  | DDNS Succeed     |
| proxy config is needed if the device is in China Mainland or HongKong        |                  |
| <input type="button" value="Submit"/> <input type="button" value="Refresh"/> |                  |

**Figure 3.16**

You have to register an account firstly, keep the user, password, host, then fill in it.  
Note: Only one DDNS can be chosen, for example, if you use manufacturer's DDNS, the 3rd party one won't work, if use the 3rd party DDNS, the manufacturer's one won't work.

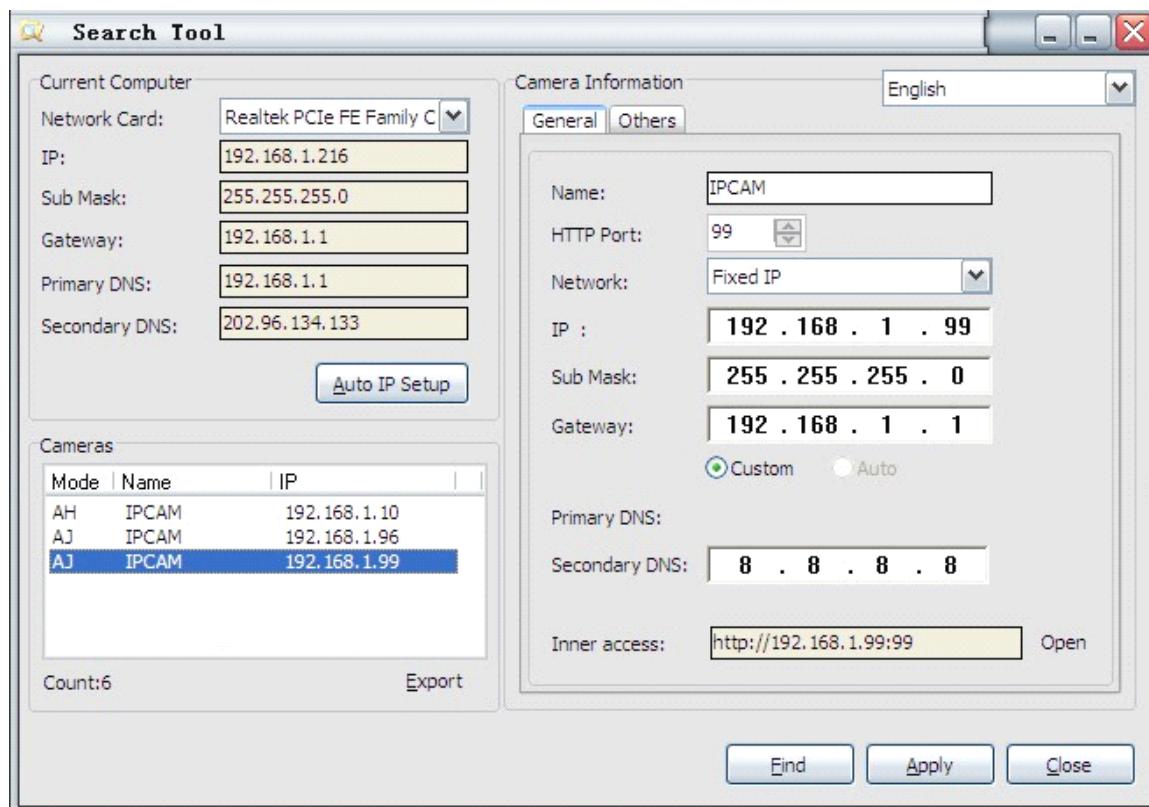
### 3.5.4.2 Port forwarding settings:

#### 1: Setting the IP address of the camera

The default IP address of the camera is : [Http://192.168.1.99:99](http://192.168.1.99:99) The default IP address of camera you can change to any other one you like, such as:

Change to: 192.168.1.109:109. or 192.168.1.99:90 etc.

Click "Apply">>fill in the user name and password of the camera>click "OK" then the camera will reboot, wait about 30 seconds. You will get your changed IP address.



**Figure 3.17**

Make sure the "Subnet Mask", "Gateway", "DNS Server" is the same as your router.

#### 2: Setting Port Forwarding in the router.

This is the most important step. Set port forwarding in router refer to the IP of your camera correctly, then the DDNS will work. Because there are so many kinds of routers from all over the world, so it's difficult to show a fix steps, but there are some samples of different routers' port forwarding settings as below, just for reference:

TP-LINK:

**(1) Login the router.**

**(2) Choose “Forwarding”, select “Virtual Servers”**



**(3) Click the Add New button, pop-up below:**

### Add or Modify a Virtual Server Entry

|                      |   |
|----------------------|---|
| Service Port:        | <input type="text"/> (XX-XX or XX)        |
| IP Address:          | <input type="text"/>                      |
| Protocol:            | <input type="text" value="ALL"/>          |
| Status:              | <input type="text" value="Enabled"/>      |
| Common Service Port: | <input type="text" value="–Select One–"/> |

Save

Return

**Fill the service port (except 80), IP address of the camera, then click Save  
The port and IP address should be the same as Camera.**

#### **BELKIN:**

**(1) Login the router.**

**(2) Choose “Firewall”, select “Virtual Servers”**

**(3) Input the port (except 80) and IP address, then click save.**

**Note: The port and IP address should be the same as Camera.**

|    | Enable                              | Description | Inbound port | Type | Private IP address | Private port |
|----|-------------------------------------|-------------|--------------|------|--------------------|--------------|
| 1  | <input checked="" type="checkbox"/> | IPCAM       | 101          | BOTH | 192.168.2.56       | 101          |
| 2  | <input type="checkbox"/>            |             |              | BOTH | 192.168.2.         |              |
| 3  | <input type="checkbox"/>            |             |              | BOTH | 192.168.2.         |              |
| 4  | <input type="checkbox"/>            |             |              | BOTH | 192.168.2.         |              |
| 5  | <input type="checkbox"/>            |             |              | BOTH | 192.168.2.         |              |
| 6  | <input type="checkbox"/>            |             |              | BOTH | 192.168.2.         |              |
| 7  | <input type="checkbox"/>            |             |              | BOTH | 192.168.2.         |              |
| 8  | <input type="checkbox"/>            |             |              | BOTH | 192.168.2.         |              |
| 9  | <input type="checkbox"/>            |             |              | BOTH | 192.168.2.         |              |
| 10 | <input type="checkbox"/>            |             |              | BOTH | 192.168.2.         |              |

**Figure 3.18**

**DLINK:**

- (1) Login the router.**
- (2) Choose “Advanced”, select “Virtual Servers”**
- (3) Input the port, IP address, Protocol, then click save.**

**Note: The “public port” & “private port” should be the same as camera’s port, choose the protocol to be “both”.**

**Virtual Server**

The Virtual Server option allows you to define a single public port on your router for redirection to an internal LAN IP Address and Private LAN port if required. This feature is useful for hosting online services such as FTP or Web Servers.

**Save Settings**   **Don't Save Settings**

**24 — VIRTUAL SERVERS LIST**

|                          |                             | Port               | Traffic Type     |                             |
|--------------------------|-----------------------------|--------------------|------------------|-----------------------------|
| <input type="checkbox"/> | Name<br>rivomaxcam          | Public Port<br>81  | Protocol<br>Both | Schedule<br>Always          |
| <input type="checkbox"/> | IP Address<br>192.168.0.107 | Private Port<br>81 | Protocol<br>256  | Inbound Filter<br>Allow All |
| <input type="checkbox"/> | Name<br>rivomaxcam          | Public Port<br>0   | Protocol<br>TCP  | Schedule<br>Always          |
| <input type="checkbox"/> | IP Address<br>0.0.0.0       | Private Port<br>0  | Protocol<br>6    | Inbound Filter<br>Allow All |
| <input type="checkbox"/> | Name<br>rivomaxcam          | Public Port<br>0   | Protocol<br>TCP  | Schedule<br>Always          |
| <input type="checkbox"/> |                             | Private Port       |                  | Inbound Filter              |

**Helpful Hints...**

Check the **Application Name** drop down menu for a list of predefined server types. If you select one of the predefined server types, click the arrow button next to the drop down menu to fill out the corresponding field.

You can select a computer from the list of DHCP clients in the **Computer Name** drop down menu, or you can manually enter the IP address of the LAN computer to which you would like to open the specified port.

Select a schedule for when the virtual server will be enabled. If you do not see the schedule you need in

**Figure 3.29**

After all these 4 steps done, then you can use the DDNS freely, check the DDNS status from the camera as below, and get the link of DDNS for internet view.



Step: "Login" > "Device Info":

| Device Status                  |                   |
|--------------------------------|-------------------|
| Device Firmware Version        | 67.3.0.127        |
| Device Embedded Web UI Version | 9.0.0.35          |
| Alias                          | 67.2.0.120        |
| Device ID                      | JWEV-000938-ECRWE |
| Alarm Status                   | None              |
| UPnP Status                    | UPnP Succeed      |
| DDNS Status                    | DDNS Succeed      |
| MAC                            | 00:12:12:15:00:52 |
| WIFI MAC                       | 00:02:2A:F0:52:B6 |
| Language                       | English           |

**Figure 3.20**

### 3.5.5.3 DDNS Register

For example, you can go to DynDNS website to register a free account.  
<http://www.dyndns.org> / <http://www.dyndns.com>.

**Step1: enter <http://www.dyndns.com/> and Create Account**

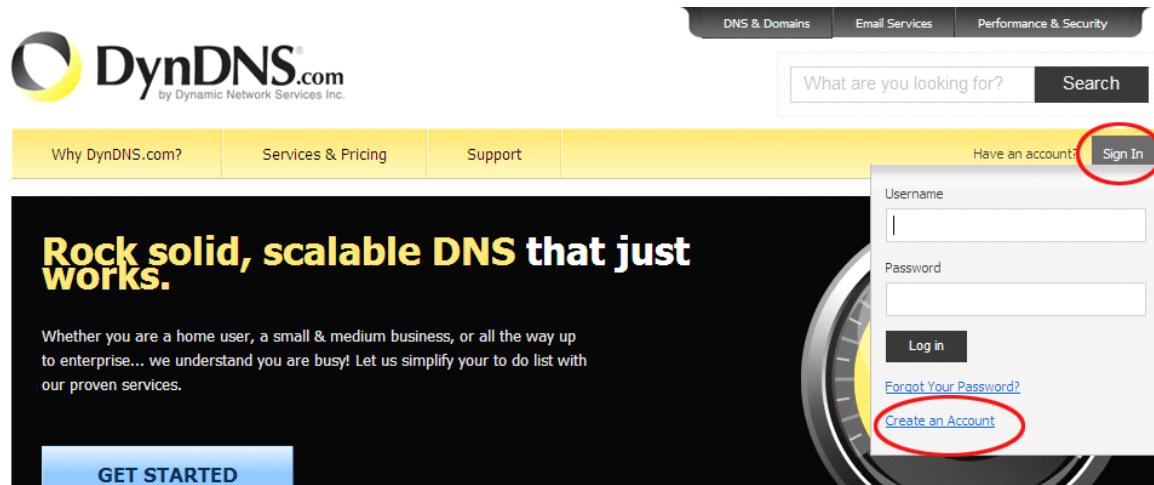


Figure 3.21

**Step2: Set the username and password as below:**

A screenshot of the DynDNS account creation form. It starts with a 'Create an account or log in to continue' header. The form fields are: 'Username' (kevinzhu, with a note: 'Username should start with letter and have 2-25 alphanumeric characters.'), 'Password' (\*\*\*\*\*), 'Confirm password' (\*\*\*\*\*), 'Email' (ipcame@qq.com), 'Confirm Email' (ipcame@qq.com), 'Security Image' (a 4x4 grid of numbers 1-9), 'Enter the numbers from the above image:' (73404), 'Subscribe to' (checkboxes for 'DynDNS.com newsletter (1 or 2 per month)' and 'Dyn Inc. press releases', with the newsletter checkbox checked), and 'I agree with the [acceptable use policy \(AUP\)](#) and [privacy policy](#)'. At the bottom is a 'Create Account' button, which is circled in red. To the right of the main form is a 'Already Registered?' sidebar with 'Log in' and 'Forgot your password?' links, and a TRUSTe Certified Privacy logo.

Figure 3.22

**Step3: After a minute, you will receive a E-mail from DynDNS Support and it will give you a confirmation address  
(e.g. <https://www.dyndns.com/confirm/create/ONMzltcCBk6mcHJI5MhVD0g>)**

What are you looking for?

Why DynDNS.com? Services & Pricing Support

Have an account?

One more step to go...

We've sent an email to [1pcame@qq.com](mailto:1pcame@qq.com), to verify your account. Please check your inbox and click on the confirmation link.

If you do not receive the email in the next few minutes you can try [resending it](#).

Thanks for choosing DynDNS.com!

**Figure 3.23**

Your DynDNS.com Account 'kevinzhu' has been created. You need to visit the confirmation address below within 48 hours to complete the account creation process:

<https://www.dyndns.com/confirm/create/ONMz1tCBk6mcHJI5MhVD0g>

Our basic service offerings are free, but they are supported by our paid services. See <http://www.dyndns.com/services/> for a full listing of all of our available services.

If you did not sign up for this account, this will be the only

**Figure 3.24**

**Step4: When the Account Confirmed, login and start using your account. Choose Add Host Services(Figure 3.25) and enter Add New Hostname (Figure 3.26)page.**

|  |   |  |
|--|---|--|
| <b>My Services</b>   | <b>Billing</b>  | <b>Account Settings</b>  |
|  View, modify, purchase, and delete your services.<br><a href="#">My Zones/Domains</a><br><a href="#">Add Zone/Domain Services</a><br><a href="#">My Hosts</a><br><a href="#">Add Host Services</a><br><a href="#">Dynamic DNS Pro</a><br><a href="#">Dynect SMB</a><br><a href="#">Internet Guide</a><br><a href="#">SendLabs SMTP</a><br><a href="#">SSL Certificates</a> |  Update your billing information, complete a purchase, and view invoices.<br><a href="#">View Shopping Cart</a><br><a href="#">Active Services</a><br><a href="#">Order History</a><br><a href="#">Billing Profile and Vouchers</a><br><a href="#">Renew Services</a><br><a href="#">Auto Renew Settings</a><br><a href="#">Sync Expirations</a> |  Update your email address, set preferences, and delete your account.<br><a href="#">Change Email Address</a><br><a href="#">Change Password</a><br><a href="#">Change Username</a><br><a href="#">Contact Manager</a><br><a href="#">Mailing Lists</a><br><a href="#">Move Services</a><br><a href="#">Preferences</a><br><a href="#">Close Account</a> |

**Figure 3.25**

**Hostname:**  . dyndns.org

Please enter valid hostname label to add new hostname (2-24 characters).

**Wildcard:**  create "\*.**host**.dyndns-yourdomain.com" alias  
 only for DynDNS Pro users (for example to use same settings for www.**host**.dyndns-yourdomain.com)

**Service Type:**  Host with IP address  
 WebHop Redirect (URL forwarding service)  
 Offline Hostname

---

**IP Address:**   
 Your current location's IP address is 116.30.138.72

TTL value is 60 seconds. [Edit TTL...](#)

**Mail Routing:**  I have mail server with another name and would like to add MX hostname... No need to choose

**Figure 3.26**

**Step5: On the Add New Hostname page.**

- 1) input your Hostname.
- 2) choose Host with IP address
- 3) click **Use auto detected IP address xxx.xx.xx.xxx**. Then click **Create Host**.
- 4) after you have added a New Hostname , you need “Proceed to checkout”

**Shopping Cart**

[Proceed to checkout ▶](#)

**⚡ Upgrade Options**

Free accounts allow only two Dynamic DNS hosts.

- to add more and enjoy additional benefits for only \$15.00 per year, [purchase Dynamic DNS Pro](#).
- to get Dynamic DNS for **your own domain**, use [Custom DNS](#).

**Dynamic DNS Hosts**

|                      |   |                        |                     |
|----------------------|---|------------------------|---------------------|
| kevinsafe.dyndns.org | - | <a href="#">remove</a> | \$0.00              |
|                      |   |                        | Order Total: \$0.00 |

**Figure 3.27**

Free Services Checkout

Once you have confirmed the contents of your cart your services will be instantly activated.

| Service                              | Period | Price                                  |
|--------------------------------------|--------|--|
| <b>Dynamic DNS Hosts</b>             |        |  |
| <a href="#">kevinsafe.dyndns.org</a> | -      | \$0.00                                 |
|                                      |        | <b>Sub-Total: \$0.00</b>               |
|                                      |        | <a href="#">Activate Services &gt;</a> |

Figure 3.28

Host Services

[↑ My Services](#)

| Hostname                             | Service | Details       | Last Updated           |
|--------------------------------------|---------|---------------|------------------------|
| <a href="#">kevinsafe.dyndns.org</a> | Host    | 116.30.138.72 | Mar. 23, 2011 10:31 AM |

[» Host Update Logs](#) [Add New Host](#)

Figure 3.29

**Step6: Now you obtained a Dynamic Domain Name(Figure3.30),and can use it in the DDNS Service Settings(details: 3.5.5)**

**Notice:**

**If you have a dynamic IP address, Make sure you have download the DynDNS's "Update Client". And installed it succeed in your computer.**

**DynDNS.com** by Dynamic Network Services Inc.

DNS & Domains Email Services Performance & Security

What are you looking for?

Why DynDNS.com? Services & Pricing [Support](#) Welcome kevinzhu (FREE) My Account My Cart Log Out

**Support**

Have a dynamic IP address? Make sure you download our update client:

FAQs Tutorials Tools Contact

Popular Topics

**Download Now**  
DynDNS® Updater (4.1.6)  
For Windows 2000 or later

Figure 3.30

### 3.5.6 E-mail and FTP service Settings

| Mail Service Settings  |  |
|--|--|
| Sender   | <input type="text"/>   |
| SMTP Server  | <input type="text"/> Please select <input type="button" value="▼"/>  |
| SMTP Port  | <input type="text" value="25"/>                                      |
| Need Authentication  | <input type="checkbox"/>   |
| SSL  | <input type="button" value="NONE"/> <input type="button" value="▼"/> |
| Receiver 1   | <input type="text"/>   |
| Receiver 2   | <input type="text"/>   |
| Receiver 3   | <input type="text"/>   |
| Receiver 4   | <input type="text"/>   |
| <input type="button" value="Test"/> Please set at first, and then test.      |  |
| <input type="button" value="Submit"/> <input type="button" value="Refresh"/> |  |

Figure 3.31

The above setting is a preparation for the alarm function, the sender should be entered the sender's email address, recipient 1、2、3、4 is filled with recipient E-mail address; SMTP server should be filled with the sender email SMTP server, e.g. the sender email address is abc@163.com, and enter mail.163.com. Generally SMTP port is 25, do no need to change; when needs to check, just tick it, and enter SMTP user and SMTP password, both of them are provided by Email provider, and test according to reference; when needs to send, please tick Email notification Internet IP address; The e-mail server and other information can be obtained from the mail service provider the email notification is image captured when alarming if no email notification is needed when alarming, and then no need to enter.

Set up FTP service, you can fill in parameters like following:

| Ftp Service Settings   |  |
|--|--|
| FTP Server   | <input type="text"/>   |
| FTP Port   | <input type="text" value="21"/>  |
| FTP User   | <input type="text"/>   |
| FTP Password   | <input type="text"/>   |
| Upload Interval (Seconds)  | <input type="text" value="0"/> Empty or 0 means do not upload pictures |
| <input type="button" value="Test"/> Please set at first, and then test.      |  |
| <input type="button" value="Submit"/> <input type="button" value="Refresh"/> |  |

Figure 3.32

The above setting is equally similar to Mail Server Settings, when alarming is triggered it also sends image, please enter FTP server, FTP port, FTP user, FTP

**password, FTP upload directory,FTP mode,FTP mode has two options: PORT and POSV. If needs a quick upload image, then select it, edit upload image interval (second)**

### 3.5.7. Alarm Service Settings

As shown below, there are two modes of alarm trigger, first one is motion detection, please refer to below interface, the sensitivity of motion detection can be adjusted according to the users' requirement, the higher the number is, the lower sensitivity is; Another mode is input alarm, when connected, it triggers alarm through alarm input signal which connects to linkage alarm GPIO;

When triggered, there are 3 alarm modes: one is IO alarm linkage, camera connects with linkage alarm box through GPIO, sound the siren ; the second is email notification, send email with images captured; the last is upload pictures alarm, as the way mentioned before FTP upload pictures alarm, Upload pictures interval (second) keeps consiste nt with the mentioned upload pictures interval of Ftp service settings. The schedule refers to arming time, as the selected time interval: 0: 00 minute per week to 0: 45 minutes and Monday 1: 00 hour and 2: 00 hour

The screenshot shows the 'Alarm Service Settings' configuration page. The main area contains the following settings:

- Motion Detect Armed:** Checked
- Motion Detect Sensibility:** Set to 5 (The smaller the value, the more sensitive)
- Alarm Input Armed:** Checked
- Trigger Level:** Set to High
- Alarm trigger event:**
  - Alarm preset linkage:** Set to 5
  - IO Linkage on Alarm:** Checked
  - Output Level:** Set to Low
  - Send Alarm Notification by Mail:** Checked
  - Upload Image on Alarm:** Checked
  - Upload Interval (Seconds):** Set to 1
- Alarm Arming Time:**
  - Scheduler:** Checked
  - select all:** Unchecked

| Day | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
|-----|---|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| Sun |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Mon |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Tue |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Wed |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Thu |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Fri |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Sat |   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |

The sidebar on the right lists other device settings:

- Device information
- Alias Settings
- Device date&Time Settings
- Users Settings
- Multi-Device Settings
- Basic Network Settings
- Wireless Lan Settings
- UPnP Settings
- DDNS Service Settings
- Mail Service Settings
- Ftp Service Settings
- Alarm Service Settings
- PTZ Settings
- Record & Capture Path
- Upgrade Device Firmware
- Alarm Log
- Back

Figure3.33

### 3.5.8 Record&Capture Path

This sector is for Record&Capture Path in your computer. It include: Record&Capture Path, Record file length(MB), Record time length(Minute), Reserved disk space(MB), Record cover.

| Record & Capture Path      |  |                                   |
|----------------------------|--|-----------------------------------|
| Record & Capture Path      | D:\ <input type="button" value="select..."/> |                                   |
| Record file length(MB)     | 100  | Least 100MB , MAX 1000MB          |
| Record time length(Minute) | 5  | Least 5 Minutes , MAX 120 Minutes |
| Reserved disk space(MB)    | 200  | Least 200MB                       |
| Record cover               | <input type="checkbox"/>                     |                                   |

Device information  
Alias Settings  
Device date&Time Settings  
Users Settings  
Multi-Device Settings  
Basic Network Settings  
Wireless Lan Settings  
UPnP Settings  
DDNS Service Settings  
Mail Service Settings  
Ftp Service Settings  
Alarm Service Settings  
PTZ Settings  
**Record & Capture Path**  
Upgrade Device Firmware  
Alarm Log  
Back

Figure 3.34

### 3.5.9 Reset/Firm Ware Upgrade

This sector is for camera firmware upgrade, it includes device system firmware

Upgrade Device Firmware and device application firmware

**Be cautious to apply for it!**

Device information  
Alias Settings  
Device date&Time Settings  
Users Settings  
Multi-Device Settings  
Basic Network Settings  
Wireless Lan Settings  
UPnP Settings  
DDNS Service Settings  
Mail Service Settings  
Ftp Service Settings  
Alarm Service Settings  
PTZ Settings  
Record & Capture Path  
**Upgrade Device Firmware**  
Alarm Log  
Back

Figure 3.35

### 3.5.9.1 Restore Factory Settings

When users forget password, we can restore ex-factory settings, when click, a picture will pop up, Click ok, and wait for 1 minute and you can use it normally. User setting feature restores

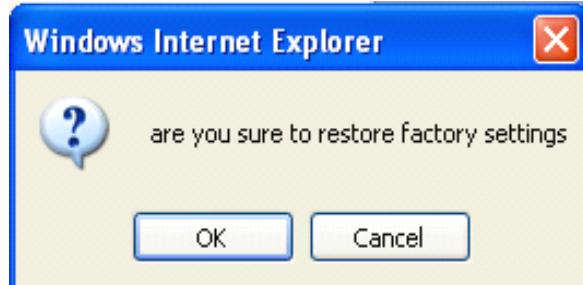


Figure 3.35

### 3.5.9.2 Reboot Equipment

Click restart, it appears the above picture, click ok, wait for 1 minute and you can use it normally

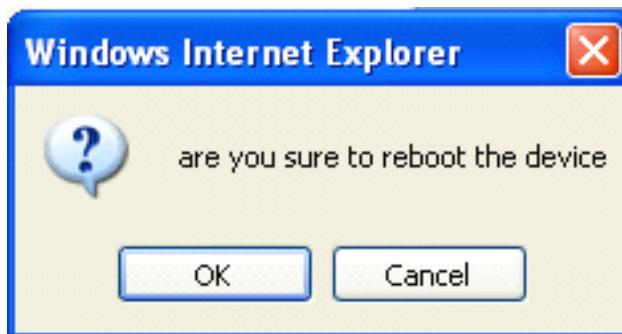


Figure 3.36

## 4 Warranty

Under normal use condition, products resulting from its own failures in the warranty period will be free maintenance. Warranty Terms as following:

a) Charge-free maintenance of the product is one year. We can repair it for free during the guarantee period (Damages not caused by misuse or vandalism). Repair over guarantee period, we will charge maintenance fee.

b) During guarantee period, breakdown caused by misuse or other reasons out of

**range of warranty. You could ask repair depend on the card. We only charge for changed components, the maintenance charge is free.**

**c) When the products need maintenance, hand up the card with products to the manufacture or local distributor.**

**d) Take apart item crust, tear up the sealing label privately, this is out of warranty range.**

**e) We do not accept the damaged item due to modification or add other functions.**

**The Following Circumstances will not be free warranty**

**a) Period check, maintenance or change components due to normal attrition.**

**b) The damages due to crash, extrusion, artificial flooding, moisture or other personal reasons.**

**c) The damages due to floods, fire, lightning strike and other natural calamities or force majeure incidents factors**

**d) Repaired item by non-authorized repair centers.**

**All above terms, if changed, regarded to relevant regulations.**

# **THAT'S ALL, THANK YOU!**